

THAT WHICH IS CLAIMED:

1. A method of controlling variables in a multiple transaction data processing environment having an active transaction and inactive transactions, the method comprising the steps of:

5 receiving at a variable an action request to perform an action associated with the variable;

determining a transaction associated with the variable;

10 establishing, responsive to the received action request, the determined transaction associated with the variable as the active transaction irrespective of a current active transaction; and then

performing the action corresponding to the action request.

2. A method according to Claim 1, further comprising the steps of:

removing the determined transaction as the active transaction; and

5 restoring the current active transaction as the active transaction.

3. A method according to Claim 1, wherein the determining step comprises the step of determining the transaction associated with the variable based on a transaction attribute associated with the variable.

4. A method according to Claim 3, wherein the variable comprises an object and a variable wrapper associated with the object and wherein the variable

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5 wrapper includes as an attribute a transaction
attribute having an attribute to attribute connection
to the transaction associated with the variable.

5 5. A method according to Claim 4, wherein the
receiving step comprises the step of receiving a
message at the variable wrapper and wherein the
performing step comprises the step of forwarding the
received message to the object.

6. A method of controlling variables in a
multiple transaction environment, the method comprising
the steps of:

5 determining if a variable has been requested to
perform an operation;

determining if a transaction is associated with
the variable;

10 setting the transaction associated with the
variable as an active transaction, irrespective of the
current active transaction, so as to replace the
current transaction as the active transaction, if it is
determined that the variable requested to perform an
operation has an associated transaction; and
performing the requested operation.

5 7. A method according to Claim 6, further
comprising the step of returning the current
transaction as the active transaction so as to replace
the transaction associated with the variable as the
active transaction.

8. A method according to Claim 7, wherein the step of determining if a transaction is associated with the variable comprises the step of determining if the variable has associated with it a transaction attribute which indicates a transaction other than the current transaction; and

wherein the setting step comprises the step of setting the transaction specified by the transaction attribute as an active transaction, irrespective of the current active transaction, so as to replace the current transaction as the active transaction.

9. A system for controlling variables in a multiple transaction data processing environment having an active transaction and inactive transactions, comprising:

means for receiving at a variable an action request to perform an action associated with the variable;

means for determining a transaction associated with the variable;

means for establishing, responsive to the received action request, the determined transaction associated with the variable as the active transaction irrespective of a current active transaction; and

means for performing the action corresponding to the action request.

10. A system according to Claim 9, further comprising:

means for removing the determined transaction as the active transaction; and

5 means for restoring the current active transaction as the active transaction.

11. A system according to Claim 9, wherein the means for determining comprises means for determining the transaction associated with the variable based on a transaction attribute associated with the variable.

12. A system according to Claim 11, wherein the variable comprises an object and a variable wrapper associated with the object and wherein the variable wrapper includes as an attribute a transaction attribute having an attribute to attribute connection to the transaction associated with the variable.

13. A system according to Claim 12, wherein the means for receiving comprises means for receiving a message at the variable wrapper and wherein the means for performing comprises means for forwarding the received message to the object.

14. A system for controlling variables in a multiple transaction environment, comprising:

means for determining if a variable has been requested to perform an operation;

5 means for determining if a transaction is associated with the variable;

means for setting the transaction associated with the variable as an active transaction, irrespective of

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the current active transaction, so as to replace the current transaction as the active transaction, if it is determined that the variable requested to perform an operation has an associated transaction; and means for performing the requested operation.

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15. A system according to Claim 14, further comprising means for returning the current transaction as the active transaction so as to replace the transaction associated with the variable as the active transaction.

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16. A system according to Claim 15, wherein the means for determining if a transaction is associated with the variable comprises means for determining if the variable has associated with it a transaction attribute which indicates a transaction other than the current transaction; and

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wherein the means for setting comprises means for setting the transaction specified by the transaction attribute as an active transaction, irrespective of the current active transaction, so as to replace the current transaction as the active transaction.

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17. A computer program product for controlling variables in a multiple transaction data processing environment having an active transaction and inactive transactions, comprising:

a computer readable storage medium having computer readable program code means embodied in said medium, said computer-readable program code means comprising:

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computer-readable program code means for receiving at a variable an action request to perform an action associated with the variable;

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computer-readable program code means for determining a transaction associated with the variable;

computer-readable program code means for establishing, responsive to the received action request, the determined transaction associated with the variable as the active transaction irrespective of a current active transaction; and

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computer-readable program code means for performing the action corresponding to the action request.

18. A computer program product according to Claim 17, further comprising:

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computer-readable program code means for removing the determined transaction as the active transaction; and

computer-readable program code means for restoring the current active transaction as the active transaction.

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19. A computer program product according to Claim 17, wherein the computer-readable program code means for determining comprises computer-readable program code means for determining the transaction associated with the variable based on a transaction attribute associated with the variable.

20. A computer program product according to Claim 19, wherein the variable comprises an object and a variable wrapper associated with the object and wherein the variable wrapper includes as an attribute a transaction attribute having an attribute to attribute connection to the transaction associated with the variable.

21. A computer program product according to Claim 20, wherein the computer-readable program code means for receiving comprises computer-readable program code means for receiving a message at the variable wrapper and wherein the means for performing comprises means for forwarding the received message to the object.

22. A computer program product for controlling variables in a multiple transaction environment, comprising:

a computer readable storage medium having computer readable program code means embodied in said medium, said computer-readable program code means comprising:

computer-readable program code means for determining if a variable has been requested to perform an operation;

computer-readable program code means for determining if a transaction is associated with the variable;

computer-readable program code means for setting the transaction associated with the variable as an active transaction, irrespective of the current active transaction, so as to replace the current transaction

as the active transaction, if it is determined that the variable requested to perform an operation has an associated transaction; and

20 computer-readable program code means for performing the requested operation.

23. A computer program product according to Claim 22, further comprising computer-readable program code means for returning the current transaction as the active transaction so as to replace the transaction associated with the variable as the active transaction.

24. A computer program product according to Claim 23, wherein the computer-readable program code means for determining if a transaction is associated with the variable comprises means for determining if the variable has associated with it a transaction attribute which indicates a transaction other than the current transaction; and

wherein the computer-readable program code means for setting comprises computer-readable program code means for setting the transaction specified by the transaction attribute as an active transaction, irrespective of the current active transaction, so as to replace the current transaction as the active transaction.